PREPARATION OF PARTICLES BY HYDROLYSIS OF A METAL CATION IN THE PRESENCE OF A POLYMER

Abstract of the disclosure

A subject matter of the invention is a process for the preparation of particles comprising at least one metal ion, which comprises the stage of bringing into contact a precursor a metal cation, optionally partially hydrolyzed, with at least one water-soluble comb copolymer. Likewise, a subject matter of the invention is particles capable of being prepared according to the process of the invention, said particles exhibiting a mean size of between 2 and 500 nm and preferably between 2 and 300 nm. Finally, it relates to the use of such particles in the mechanical polishing of hard objects, in the preparation of pigments or mixed ceramics for the electronic industry, in the reinforcing of polymeric matrices, in fungicidal or biocidal dispersions, in the scavenging of sulfur derivatives or the scavenging of unpleasant smells.